

April 13, 1954

A. J. KALSTROM

2,674,944

ROLLER STAMP

Filed Jan. 3, 1951

3 Sheets-Sheet 1

Fig. 1.

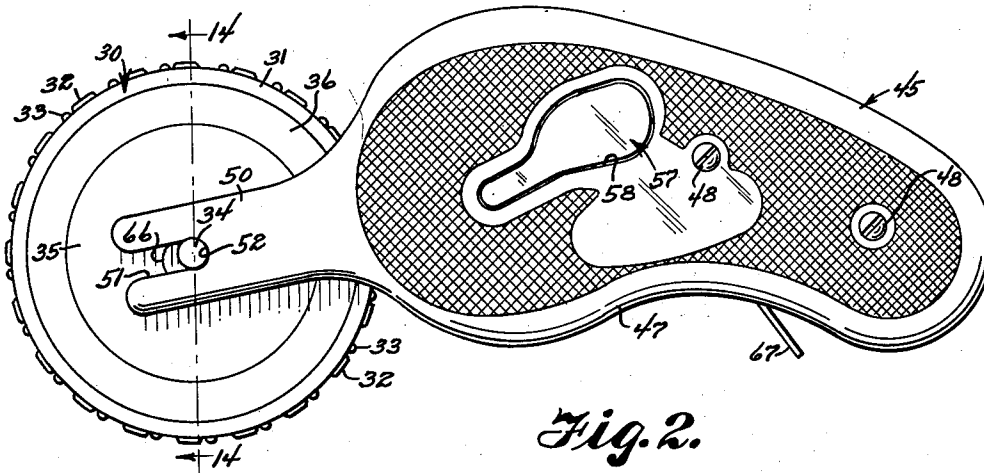


Fig. 2.

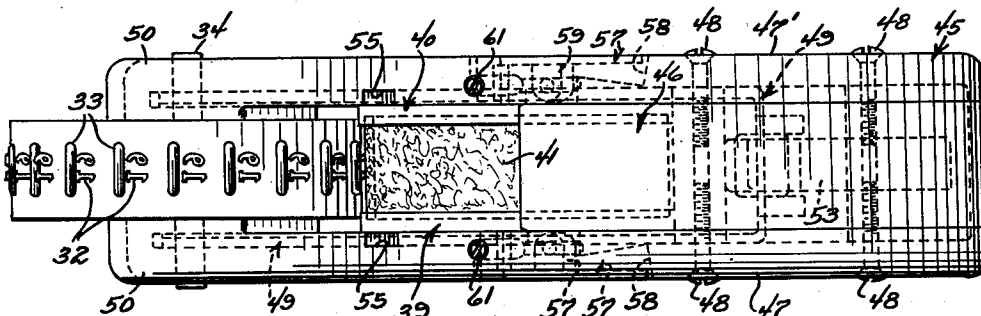
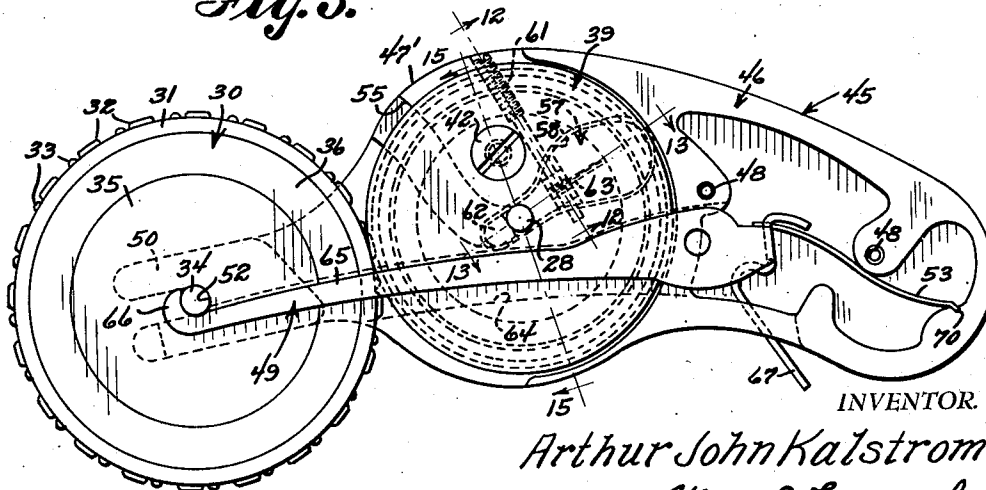


Fig. 3.



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Fig. 4.

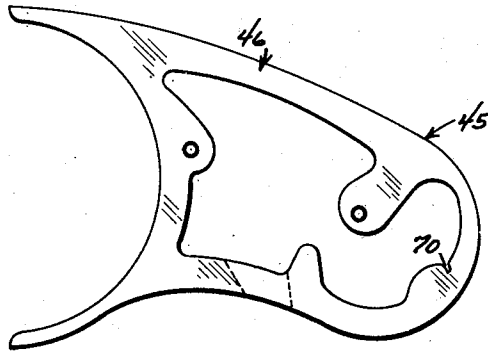


Fig. 5.

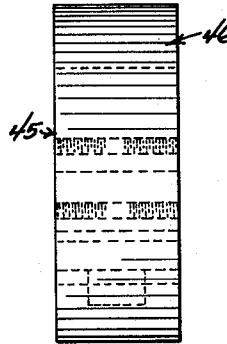


Fig. 6.

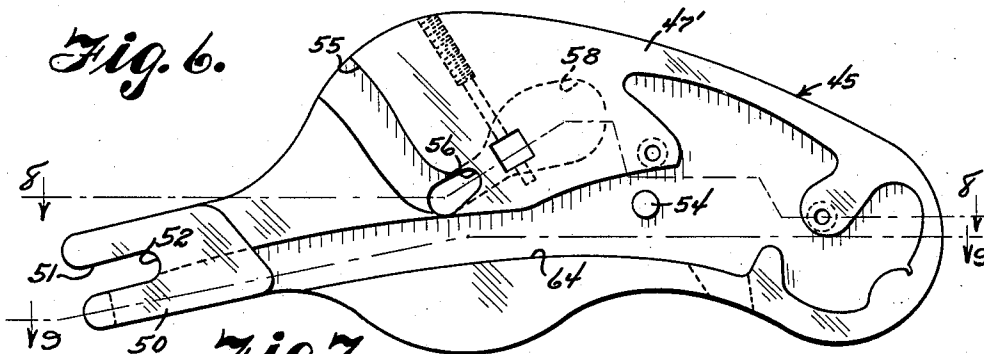


Fig. 7.



Fig. 8.

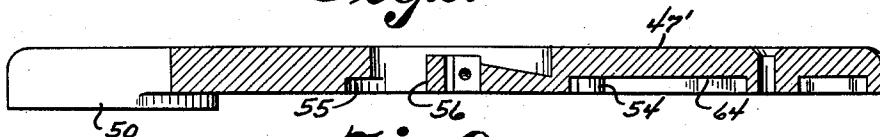
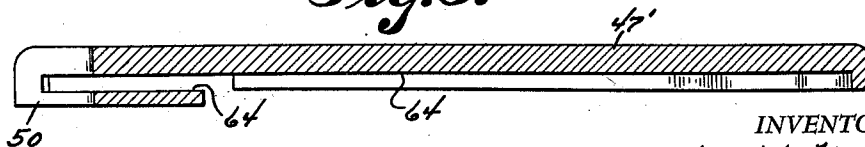


Fig. 9.



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Fig. 10.

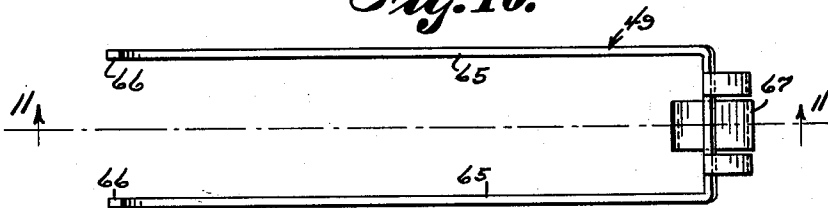


Fig. 11.

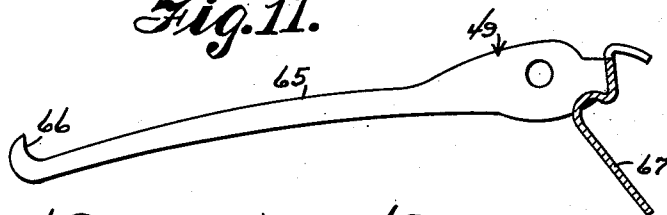


Fig. 12.

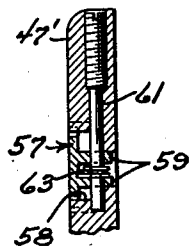


Fig. 13.

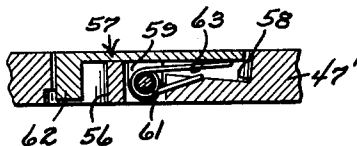


Fig. 14.

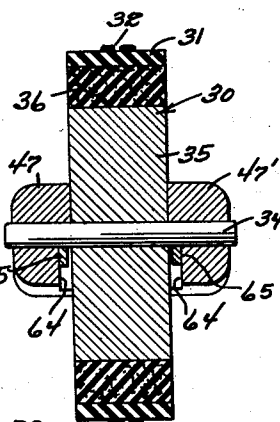


Fig. 15.

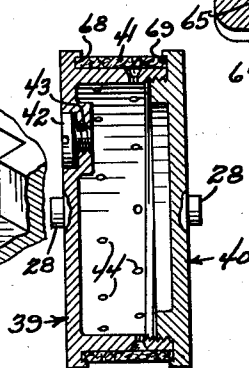
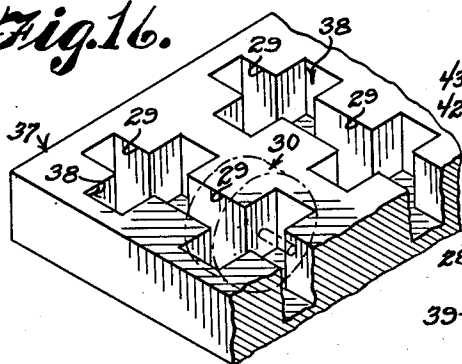


Fig. 16.



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UNITED STATES PATENT OFFICE

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ROLLER STAMP

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Application January 3, 1951, Serial No. 204,243

1 Claim. (Cl. 101—331)

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This invention relates to a printing appliance or roller, and more particularly to an appliance for use in marking prices on merchandise, such as canned, bottled or packaged goods, groceries, drugs and the like.

The object of the invention is to provide an appliance which is in the form of a rubber printing roller that is self inking, whereby a person can readily mark prices of merchandise, such as canned, bottled or packed goods, groceries, drugs and the like.

Another object of the invention is to provide a printing appliance which includes a plurality of detachable printing rollers, whereby a large quantity of merchandise can be price marked in a short period of time and with a minimum of effort.

A further object of the invention is to provide a printing appliance which is extremely simple and inexpensive to manufacture.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings forming a part of this application, in which like numerals are used to designate like parts throughout the same:

Figure 1 is a side elevational view of the marking appliance constructed according to the present invention;

Figure 2 is a top plan view of the marking appliance;

Figure 3 is a side elevational view of the marking appliance, with one of the side plates removed;

Figure 4 is a side elevational view of the central piece or body member;

Figure 5 is an end elevational view of the body member of Figure 4;

Figure 6 is a side elevational view of one of the side plates;

Figure 7 is a top plan view of the plate of Figure 6;

Fig. 8 is a sectional view taken on the line 8—8 of Figure 6;

Figure 9 is a sectional view taken on the line 9—9 of Figure 6;

Figure 10 is a top plan view of the latch;

Figure 11 is a sectional view taken on the line 11—11 of Figure 10;

Figure 12 is a sectional view taken on line 12—12 of Figure 3;

Figure 13 is a sectional view taken on line 13—13 of Figure 3;

Figure 14 is a sectional view taken on the line 14—14 of Figure 1;

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Figure 15 is a sectional view taken on the line 15—15 of Figure 3;

Figure 16 is a fragmentary perspective view, with parts broken away and in section, showing the container for the printing drums.

Referring in detail to the drawings, the marking appliance of the present invention includes a plurality or set of cylindrical price-marking stamps or rollers which are each designated by the numeral 30. Each of the rollers 30, Figure 14, includes a suitable rubber stamp tread 31 which has a single price 32 repeated completely around its periphery, the figures being approximately the size of standard 24-point type. Also, each figure or group of figures is underscored, as at 33, Figure 2, and the figures are set far enough away from the next figure or group of figures to obviate the possibility of the figure or group of figures being read inversely, such as "61" instead of "19", as shown in the drawings (Figure 2).

Each of the stamps or rollers 30 further includes an axle 34 which may be made of any suitable material, such as metal, Figure 14, the axle 34 extending through the center of the roller 30 and projecting beyond the sides thereof. The core or center 35 of the roller 30 may be made of any suitable material, such as wood, metal, plastic or rubber, and each stamp or roller 30 further includes a suitable cushioning material 36 which is arranged between the core 35 of the stamp or roller and the tread 31, so as to permit the tread 31 to "ride" over the rims of cans and the like. If desired, the rollers 30 can be made completely out of molded rubber including the price-marking tread 31. A separate price-marking stamp or roller 30 may be provided for each common price on any given commodity.

As an example, the following dimensions are used to illustrate the construction and proportions of one size of a roller 30. It is to be understood, however, that other sizes may be found appropriate for marking the articles. Each price-marking stamp or roller 30 is approximately 2¾ inches in diameter and ¾ of an inch in thickness or length, and all such stamps or rollers in the set should be of exactly the same dimensions, although different sets may have different dimensions. The complete set of price-marking stamps or rollers 30 is housed or stored in a single container 37, Figure 16, and the container 37 is constructed so as to allow the price-marking stamp or roller 30 to stand on edge in its own compartment 38. Each compartment 38 is pro-

vided with openings or slots 29 which extend from the top so as to allow the protruding or projecting axles 34 on each side of each price-marking stamp or roller 30 to stand completely free from any obstructions for a space of approximately $\frac{3}{8}$ of an inch around it and to be completely open on the upper side.

The marking appliance of the present invention includes an inking roller, as shown in detail in Figure 15, and the inking roller includes a drum 39 having a screw-threaded, removable end 40, a felt or other suitable material pad 41 being arranged around the circumference of the drum 39. A suitable, detachable or removable screw filler plug or cap 42 is provided for closing and sealing the filler hole 43. A plurality of perforations or drilled holes 44 are evenly spaced around the circumference of the drum 39, so that ink can feed from the interior of the drum to the inked pad 41. The holes 44 are countersunk, so as to provide a well which will enable ink to feed to the pad 41, and the pad 41 can be constructed of any suitable material, such as felt. The pad 41 is constructed so that it can be slid over the drum 39 when the end 40 is removed, so that the pad 41 can be easily and readily replaced. Axles 28 project from the drum 39, as shown in Figures 3 and 15.

The marking appliance of the present invention further includes a suitable handle 45 and the handle 45 includes a center piece or body member 46, Figures 4 and 5, and a pair of similar, spaced, parallel, side plates or pieces 47 and 47', Figures 6 through 9. The pieces 47 and 47' are similar, so that a description of one will suffice for both. The pieces 47 and 47' are connected together by means of screws 48, Figure 2, and a latch 49, Figures 10 and 11, is provided, whereby the front end 50 of the handle 45 can be placed in the slot 29, Figure 16, so that the desired roller 30 can be picked up out of the container 37. When the price-marking stamp or roller 30 is picked up, the roller axle 34 is positioned in the slots 51 which are arranged in the front ends of the side pieces 47 and 47', and the axle 34 abuts against the bearing 52.

The latch 49 is spring loaded by means of a spring 53, Figure 3, and the latch 49 is pivotally mounted between the side pieces 47 and 47' by means of a pivot pin 54.

The handle 45 further includes inclined slots 55, Figure 6, which are arranged in each of the side plates 47 and 47', and a bearing surface 56 is provided at the inner end of each of the slots 55. The bearing surfaces 56 are adapted to receive therein the projecting or outer ends of the axles 28 of the inking roller 39. Latches 57 are provided for preventing accidental movement of the inking roller 39, Figures 12 and 13. Thus, one of the latches 57 is provided or connected to each of the side plates 47 and 47', the latches 57 being seated in a recess 48 in the proper side plate. Each of the latches 57 is provided with a pair of spaced ears 59, and the ears 59 are pivotally connected to a pin 61, so that the latches 57 can be manually pivoted about the pin 61. Each of the latches 57 is provided with a transverse keeper 62, Figure 13, and the keepers 62 serve to engage the axles 28 so as to retain the inking drum 39 in position in the inner ends of the slots 55, Figure 3. The latches 57 for the inking drum are spring loaded by means of springs 63 which are interposed between the pair of ears 59.

The latch 49 serves to retain and selectively release the price-marking stamp or roller 30, and a slot 64 is provided in each of the side plates 47 and 47', Figure 9, the slot 64 serving to receive therein the legs 65 of the latch 49. Hooks 66 are formed on the front ends of the legs 65, and a trigger 67, Figures 10 and 11, is connected to the rear end of the latch 49 for actuating the latch.

The marking appliance of the present invention is used as follows: A suitable quantity of ink is poured into the inking drum 39, and then the filler hole 43 is closed with the screw filler cap 42. The inking drum 39 is then inserted so that the ends of its axle 28 descend into the guide slots 55 and the axles 28 are latched or locked in place by means of the latches 57. Then the front end 50 of the handle 45 is positioned or pressed into the guiding slots 38 in the compartments in the container 37 which houses the price-marking stamp or roller desired. The price-marking stamp or roller 30 is engaged and retained in the handle 45 against the bearing 52 by means of the hook end 66 of the latch 49. The roller 30 is held against the inking drum 39 and its pad 41. The price-marking stamp or roller 30 is then rolled across the packages of merchandise to be price-marked, as they stand in their case or shipping container, so that whole cases of merchandise can be price-marked in a few short motions and with a minimum of effort. When it is desired to release that price-marking stamp or roller 30 which has been used, the trigger 67 can be pressed and the roller 30 can be dropped into the proper compartment in the container housing 37, so that another roller 30 can be picked up for marking other items with a different price.

From the foregoing it is apparent that a marking appliance has been provided wherein the rollers 30 each have a single price repeated around its entire periphery, the prices or numerals being sufficiently separated so that there will be no possibility of the numbers being read upside down, and wherein a set of the rollers 30 can be provided so that a separate stamp or roller for each common price used in the particular commodity is provided. The container or housing 37 is especially constructed so that the front end 50 can be inserted in the proper slot to engage the axles 34 of the price-marking stamp or roller which is to be used. Also, the roller 30 can be quickly released and returned to the housing 37 after the user has finished with that particular roller. Also, the appliance of the present invention can be used for heading columns in blank ledgers or notebooks or on blank sheets of ledger paper. The drum 39 is provided with an annular recess 68, and the end plate 40 is provided with an annular flange 69, Figure 15, so that the pad 41 will be maintained in its proper place, and also leakage of ink will be prevented. The countersunk holes 44 provide a well to distribute the ink to the pad 41 in the proper amount. The rear end of the spring 53 seats in a recess 70 in the center piece or body member 46, Figure 4.

I claim:

70 In a marking appliance, a body member, a side plate arranged on each side of said body member, securing elements for connecting said side plates together, the front ends of said plates being provided with registering slots, a marking roller including an axle seated in said slots, a

latch pivotally mounted between said pair of side plates and including a pair of spaced parallel legs having hooks on their front ends for maintaining said axle in said slots, a spring for urging said hooks into locking position, a trigger connected to the rear end of said latch for actuating said latch, there being an inclined slot in the inner surface of each of said plates terminating in a bearing, an inking roller including a pair of diametrically opposed axles seated in said bearings, locks for preventing accidental movement of said axles from said bearings, there being a recess in the outer surface of said plates for receiving said locks, ears extending from each of said locks and pivotally connected to said plates, a keeper extending from each of said locks for maintaining the axles in said bearings, and springs for urging said keepers into locking position, there being cut-outs in the inner surface of said plates for receiving the legs of said latch.

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